

# **On an approach to the study of the solvability of boundary value problems for the system of differential equations of the 3D theory of elasticity**

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## **Abstract**

© 2016, Pleiades Publishing, Ltd. We study the solvability of a boundary value problem for a system of second-order linear partial differential equations. A theorem on the existence of a solution of the problem is proved. The method used in the study is to reduce the original system of equations to a system of 3D singular integral equations, whose solvability can be proved with the use of the notion of symbol of a singular operator.

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